

Release notes for ENDF/B Development n-054_Xe_133
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=5452, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=5452, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      218 TO      275
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=5452, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=5452, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      218
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5452, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      277
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      605
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      636
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      665
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      683
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 695

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 702

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 716

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 726

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 734

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 752

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 769

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 785

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 55 | RECORD NUMBER | 801 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 56 | RECORD NUMBER | 816 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 57 | RECORD NUMBER | 830 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 58 | RECORD NUMBER | 844 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 59 | RECORD NUMBER | 857 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 60 | RECORD NUMBER | 870 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 61 | RECORD NUMBER | 882 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 62 | RECORD NUMBER | 894 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 63 | RECORD NUMBER | 905 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 64 | RECORD NUMBER | 916 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT= 91 | RECORD NUMBER | 926 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT=102 | RECORD NUMBER | 936 |
| SECTION 3/102 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT=103 | RECORD NUMBER | 960 |
| SECTION 3/103 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT=104 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT=104 | RECORD NUMBER | 975 |
| SECTION 3/104 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT=105 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT=105 | RECORD NUMBER | 987 |
| SECTION 3/105 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 3, MT=107 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5452, MF= 3, MT=107 | RECORD NUMBER | 998 |
| SECTION 3/107 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 2 (0): Directory (b)

- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 2 | RECORD NUMBER | 1015 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 16 | RECORD NUMBER | 1200 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 17 | RECORD NUMBER | 1211 |
| SECTION 4/ 17 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 22 | RECORD NUMBER | 1222 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 28 | RECORD NUMBER | 1233 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 32 | RECORD NUMBER | 1244 |
| SECTION 4/ 32 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 51 | RECORD NUMBER | 1255 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 52 | RECORD NUMBER | 1280 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 53 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 53 | RECORD NUMBER | 1308 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 54 | RECORD NUMBER | 1336 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 55 | RECORD NUMBER | 1364 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 56 | RECORD NUMBER | 1389 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 57 | RECORD NUMBER | 1416 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 58 | RECORD NUMBER | 1443 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 59 | RECORD NUMBER | 1467 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 60 | RECORD NUMBER | 1491 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 61 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 61 | |
| SECTION 4/ 61 NOT IN DIRECTORY | RECORD NUMBER 1515 |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 62 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 62 | |
| SECTION 4/ 62 NOT IN DIRECTORY | RECORD NUMBER 1539 |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 63 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 63 | |
| SECTION 4/ 63 NOT IN DIRECTORY | RECORD NUMBER 1563 |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 64 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 64 | |
| SECTION 4/ 64 NOT IN DIRECTORY | RECORD NUMBER 1586 |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 4, MT= 91 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 4, MT= 91 | |
| SECTION 4/ 91 NOT IN DIRECTORY | RECORD NUMBER 1609 |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 5, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 5, MT= 16 | |
| SECTION 5/ 16 NOT IN DIRECTORY | RECORD NUMBER 1634 |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 5, MT= 17 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 5, MT= 17 | |
| SECTION 5/ 17 NOT IN DIRECTORY | RECORD NUMBER 1703 |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 5, MT= 22 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5452, MF= 5, MT= 22 | |
| SECTION 5/ 22 NOT IN DIRECTORY | RECORD NUMBER 1735 |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1934

56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 5, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 5, MT= 32
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 2028

57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5452, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5452, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 2072

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04 / STRENGTH FUNCTION 1.03999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04
STRENGTH FUNCTION 1.03999E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [18 more lines]

2. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04 / STRENGTH FUNCTION 1.04000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04
STRENGTH FUNCTION 1.04000E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [4 more lines]

3. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04 / STRENGTH FUNCTION 1.04001E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04
STRENGTH FUNCTION 1.04001E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [1 more lines]

4. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04 / STRENGTH FUNCTION 1.04002E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03999E-04
STRENGTH FUNCTION 1.04002E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

5. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04 / STRENGTH FUNCTION 1.03998E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04
STRENGTH FUNCTION 1.03998E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [20 more lines]
```

6. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04 / STRENGTH FUNCTION 1.04001E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04
STRENGTH FUNCTION 1.04001E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

7. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04 / STRENGTH FUNCTION 1.03999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04
STRENGTH FUNCTION 1.03999E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

8. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04 / STRENGTH FUNCTION 1.04003E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04
STRENGTH FUNCTION 1.04003E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

- Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04 / STRENGTH FUNCTION 1.04000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ENERGY = 8.05000E+01. STRENGTH FUNCTION IS 1.03998E-04
STRENGTH FUNCTION 1.04000E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [2 more lines]
```

- recent Warnings:

- Fission widths given for non-fissile nucleus, but are zero
0: Fission?

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [574 more lines]
```

- fudge-4.0 Warnings:

- Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.96%

- fudge-4.0 Errors:

- Calculated and tabulated Q values disagree.
reaction label 16: n[multiplicity:'2'] + Xe132 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6608405.50201416 eV vs -6.4521e6 eV!

- Calculated and tabulated Q values disagree.
reaction label 17: n[multiplicity:'3'] + Xe131 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15544992.40921021 eV vs -1.53932e7 eV!

- Calculated and tabulated Q values disagree.
reaction label 18: n + H1 + I132 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9406651.186325073 eV vs -9249630. eV!

- Calculated and tabulated Q values disagree.
reaction label 19: n + H2 + I131 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13508926.54547119 eV vs -1.32706e7 eV!

- Calculated and tabulated Q values disagree.
reaction label 20: Xe134 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 8378238.724121094 eV vs 8534390. eV!

6. Calculated and tabulated Q values disagree.
reaction label 21: $n + \text{He4} + \text{Te129}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3239302.763763428 eV vs -3076890. eV!

7. Calculated and tabulated Q values disagree.
reaction label 22: $\text{H1} + \text{I133-s}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1148623.227111816 eV vs -977534. eV!

8. Calculated and tabulated Q values disagree.
reaction label 23: $\text{H2} + \text{I132-s}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7182085.085388184 eV vs -6939510. eV!

9. Calculated and tabulated Q values disagree.
reaction label 24: $\text{H3} + \text{I131-s}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7251693.604858398 eV vs -7085450. eV!

10. Calculated and tabulated Q values disagree.
reaction label 25: $\text{He4} + \text{Te130-s}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5180243.468719482 eV vs 5.3402e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (0): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided